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G. & G. SJIIV. INMANT AND AND THES DEC 181016

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Form 504	
DEPARTMENT OF COMMERCE	
U.S. COAST AND GEODETIC SURVEY	
State: Claska	
DESCRIPTIVE REPORT.	
Hydrographic Sheet No. 3789.	
LOCALITY:	
Rivillagiged Lame	
Land Rock to	
Point Clara	-
 .	
<u># 191</u> 5	
OHIEF OF BARRY	
CHIEF OF PARTY:	
J. a. Janiela	

Hydrographic Sheet # 3789

1. REPORT, LIMIT, SCALE, UNIT FOR DEPTHS AND SOUNDINGS:

Following is report to accompany Hydrographic Sheet The area dragged as shown on this sheet is in Revillagigedo No. 3789. Channel and extends from Twin Islands to Lord Rock. The outside limits of the dragged area runs from 400 to 800 meters, and in some cases to within 200 meters from shore on the east side of the Channel. One line passes 400 meters west of Snail Rock and 200 meters from Black Rock. The entrance to the Boca De Quadra was carefully examined and the best approach found to lie between White Reef and Slate Island, a depth of 45 feet being verified to within 1/2 mile of either the Reef or the Island. The entrance from the south , lying east of Black and Snail Rocks, and White Reef, was verified to a depth of 39 feet. One should keep about 3/4 mile off Black and Snail Rocks to $_{\Lambda}$ a 17 feet shoal as shown on the chart. A depth of 40 feet was verified for a channel about 1/2 mile wide, 1-1/4 miles from Snail Rock and between it and White Reef, and a depth of 24 feet verified to within 1/2 mile The drag was carried into Foggy Bay, and a 32 ft. spot of Enail Rock. found which is noted further on in the report. The east shore line from Slate Island to Foggy Point is taken from topography done by party of John A. Daniels, in 1915. The rest of the shore line is taken from chart 8100 and amounts to a recomnoissance only. The scale used was 1:40,000, and the unit for drag depths and soundings is feet. Hydrography of Very Inlet is shown on sub plan on this sheet and report covering same is on page 2

2. SHOALS AND ROCKS LOCATED:

Rocks off Kah Shakes Cove: (Reported) Two rocks were discovered in the approach to Kah Shakes Cove. One with: a least depth of 12 feet lies 896 meters, N 12°-30'Etrue from the Northwesterly point of the i island forming the westerly entrance to Kah Shakes Cove. It was kelp marked when located. The second lies 220 meters N. 36°-30'Etrue from the most easterly point of the same island and is awash at the lower low tides. It was also kelp marked when located. Both of these rocks are dangerous to boats approaching Kah Shakes Cove.

Shoals near Black and Snail Rocks: N. 61°-30' E. , and 1460 meters from Black Rock . a 17 ft. spot was found which agrees with the 2-1/2 fm. shoal shown on chart 8100. 250 meters north of Snail Rock at the end of a kelp patch, a sounding of 21 feet was gotten.

Reef off Kirk Point: (Reported) 880 meters true south of House Island and extending 500 meters from the nearest shore of Kirk Point is a reef that is awash at extreme low water. This reef extends to the southwest of the rocks shown awashfor 600 meters where a sounding of 41 feet √ washade. The reef is ordinarily marked by kelp. erroneously

Rocks off Foggy Point: (Reported) 1220 meters due north, true, from the outer (most westerly part of Foggy Point) is a reef baring at extreme low water. At distances of 360 and 220 meters in a southeasterly direction from this reef are two more kelp marked rocks with 14 and 14 ft. depths, while 440 meters to the northeast a sounding of 32 feet was gotten. N. 26° -W and 1640 meters from Foggy Point a This lies mear the centre of the / depth of 32 feet was also found. entrance to Form Bay. Outside of so Imcurre no shouls were found

1. REPORT, METHODS, PARTY:

Sub Plan on Hydrographic Sheet No. 1, shows the hydrography in Very Inlet. The work was done either from a skiff with an Evinrude overboard motor attached or from the launch "Rival". In either case the boat was stopped at each position, both angles being taken by the officer incharge. The party consisted of three men, coxswain, who was also engineer recorder, and leadsman, and was in charge of Leroy P. Raynor, Aid, C. & G. Survey.

2. LOCATION, DETAILED DESCRIPTION:

Two miles Nix E of Foggy Point and opening into Foggy Bay, is Very Inlet, the main channel of which extends about 4 miles to the N. E. Extending in a southerly direction from this main channel are two smaller arms terminating in bays. The entrance to the Inlet is between a low wooded island and a reef awash at ordinary high tide but covered at extreme high . water. The north side of the island is steep up to about 40 feet. The entrance can usually be noted during ebb tide by the strong current running into Foggy Bay. Near the turn of the ebb there are , at most times moderate tide rips. After passing this reef, small boats running up the Inlet should follow the centre of the channel as far as the first arm extending to the southeast. From here the best course leading to the large bay at the head of the Inlet is to go midway between the large, wooded, round island head of the iniet is to go midway perwed the east end of a and a small grass covered one to the west and enter the narrows from the north, between the main shore and the small island at the east end of a small group of islands, favoring the main shore slightly. Beyond here follow the centre of channel to the large bay. Considerable caution must be taken by those having no local knowledge. A strong tidal current runs thru the narrows except at and near high and low slack. The large bay at the head appears free from dangers. Sene boats fishing in this bay for salmon did not report any shoals struck by their nets. There are rapids at the entrance to the bay opening to the south. The ebb tide runs out of this pay from 1 to 2 hours after low water. On account of the strong current thru the entrance, this bay can only be entered safely at high slack. The least depth found in the narrows was 1/6 fathem. Fishing boats do not use this bay at present.. The large bay at the end of the first arm extending to the southeast from the main channel, has numerous islands and rocks awash at v various stages of the tide. This is one reason it is not used by the fisher-In the narrowest part of the entrance are rapids, over which the ebb runs for about 2 hours after low water. The passage can only be made at high slack. The "Mival" drawing about 8 feet went thru the pass at high water. INSHOPE DANGERS :

shore, at the beginning of th first arm extending to the southeast, which should be avoided when going into the first large bay. Beyond the rapids in this arm, and just off the middle of the large island at the northeast part of the first bay is a lone rock awash at low water. The kelp over the ledge of rocks near the tide staff location does not show at extreme high tide.

4. SCALE, UNIT FOR SOUNDINGS:

The scale of the subplantis 1:20,000, and the unit for soundings is fathoms.

Da	ate,	1915	Letter.	Vol-	Angles	Sound-	Miles	Vessels.
May	14		\boldsymbol{A}	1	84	ings.	statute	
	15		B	1	141	ĺ	2.8	Launches.
	18		Č	1	268		6.0	đo
	19		D	1			8.0	фo
	21		E		182		5.8	
	24		F	1 1	270		8,8	
	28		G.		256		7/0	
	29			1	204		3.0	
June	5		H J	1	228		8.3	
o ande	9			2	222	2	8.4	
	10		K	2 2	169		5.0	
			L	2	54		1.0	
	11		M.	2	72	4.	1.5	,
	12		Tr.	2	138		3.6	
	14		0	2	144		5.5	
	15		P	2	- 6 6		1.5	
	17		્ર	2 .	60		2.0	
	18		R	2∂: 3	204	•	4.5	
	22		ន	3	144		3.5 I	quator & launch
	23		T	3	2 55		7.0	
	24		U	3	126		4.0	
	25		Δ	3	186		7.7	
	25		W	3	213	10	6.1	
	28		X	3	24	5	0.4	
	29		Y	3	132	9	3.0	
	30		\boldsymbol{z}	3	262	1	6.8	
July	1		A'	4	56	3	0.8	
	7		B*	4		. 4	•••	
	9		C*	4	222		6.0	
	10		\mathbf{D}^{ullet}	4	161		5.5	
	12		E.	4	132	1	3.6	
	13		\mathbf{F}^{\bullet}	4	204	7	6.0	
	14		G'	4	72	i	2.5	
	15		\mathbf{H}_{ullet}	4	252	_	8.0	i i
Total					5223	47	153.6	

The unit for drag depths and soundings is feet, and the plane of reference is mean lower low water. Tide staff readings were taken at Kah Shakes Cove and Hassler Harbor for comparison with the automatic tide guage at Ketchikan.

TIDES.	Ketchikan
Mean Rower low water, or	ft.
plane of reference on staff	1.3
Lowest tide observed " "	-2.9
Highest " " " "	21.5
Mean range of tide	15.1

I	Date, 1915	Letter.	Vol-	Posi- tions	Sound- ings.	Miles statute.	Vessels.
July	21	A	1	18	18	0.8	skiff
	23	В	1	30	116	4.4	launch
v *	24	C	1.	10	27	2.0	launch
	27	D	1	26	111	3. 5	skiff with
	30	E	1	44	240	6.6	Evinrude motor launch and
Tot	al	• • • • • • • • • •	• • • • • •	128	512	17.3	skiff with Evinrude

The unit for soundings on the sub-plan is fathoms, and the plane of reference is mean lower low water. A tide guage was set up in Very Inlet and a number of readings taken for comparison with the automatic guage at Ketwhikan,

		TIDES.		
Mean lower low water, or	r		Ketchikan ft.	
plane of reference		staff	1,3	
Lowest tide observed	**	17	-2.9	
Highest " "	**	£	21.5	
Mean range of tide			13.1	

131904 131° 02 T AND GEODETIC SURVEY 55°066 : Existence of RK. not determined. From Hyd=3790 it appears that the drag set at 52' eff. depth passed over the rock, or very next it. 55°04 This rock does not exist m Position Shown on chart. Nothing resembling itwas Ress in a search for it, nor at any time during the The party's stay in This Socality John A. Danielo 8/9-1916

Ochg, refer to 900 Shklorine and to be post-office ADDRESS: Wrangell, Alaska placed by lum worth the Descript Reform of the shutget "

EXPRESS OFFICE:

"DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY
Wire Drag Party No. 3.

HYDROGRAMY, ETC. (3) Her.

CHARTS (S)

July 31, 1916.

The Superimtendent,

Coast & Geodetic Survey,

Washington, D. C.

Sir;

There is returned herewith boat sheet covering work in

Revillagigedo Channel done by this party asteseason which was

sent me for explanation of certain crosses appearing upon it that

resemble sunken rock symbols and caused confusion in the office compilation

of the work.

As stated upon the tracing accompanying the sheet these crosses are marks placed upon the sheet to show the exact point at which it was desired upon various days to start setting out the drag. That is the only significence that they have.

The rock charted to the northward of White Rock was passed over by the drag upon sheet 3790 as shown, and so far as we were able to determine does not exist.

Respectfully,

John A. Daniels. Assistant, 6. & G. Survey.